"My flock is dying on the plain; The heavens are brass—they yield The earth is iron. I toll in vain!" While yet he spake, a breath had stirred His drooping vine, like wing of bird, And from its leaves a voice he heard: "The germs and fruits of life must be

Forever hid in mystery." And from its bloom a voice heard he "A mightler hand, more skilled than th Must hang the cluster on the vine, And make the fields with harvest shine "Man can but work ; God can create; But they who work and watch and wait

"Look up to heaven! behold and hear The clouds and thunderings in thy ear-And answer to thy doubts and fear." He looked, and lo ! a cloud-draped car. Was rushing up to reset the rain. And every thirsty flock and plain That came to clothe the fields with grain.

And on the cloud he saw again The covenant of God with men Re-written with his rainbow pen "Seed time and harvest shall not fail, And though all enemies assail, My truth and promise shall prevail."

The immigration pamphlet of sixty pages, with State map, just issued by hung up in a carcless manner, traces the State Board of Agriculture, seems and reins twisted into knots, and the to us the most comprehensixe, most saddle and bridle bung askew, the complete in detail, and the most interesting and useful compendium of Kan-shape given it when wet, and when sas resources which has been printed. forced into its original form damage gratuitous circulation, in pursuance of first point to be observed is to keep an appropriation wisely made by the the leather soft and pliable. This can legislature authorizing the board to be done by keeping it well charged prepare and print 65,000 copies of such with oil and grease; water is a dea document in various languages stroyer, but mud and the saline moist-20,000 are in English, 20,000 in Ger- ure from the animal are even more man, 15,000 in Swedish and 10,000 in destructive. Mud in drying absorbs Danish. Copies will be sent postpaid to any address, at home or abroad, by leather, making it a prey to water, Wm. Sims, secretary of the board. while the salty character of the per-Requests to have copies mailed should state the language preferred. The leather, stitchings, and mountings. It work is illustrated with a number of therefore follows that to preserve the

sus of 1882 is, of course, relied upon and strength for many years.—Chito furnish most of the statistics given. cago Times. Geographical location, area, population by counties, surface features and A. W. Pierson, of Vineland, gave drainage, improved acreage by count the following account of a successful

for 1882 are added

less soon be exhausted.

### HOW TO KILL CABBAGE WORMS.

duced instant death when applied to stock between the cord and the graft." J. P. ALLEN the worm, though its fumes were not appear on the leaves. Hot water applied to the cabbage destroyed a portion of the worms, causing also the leaves to turn yellow. One ounce of saltpetre and two pounds of common salt dissolved in three gallons of water the orchard. These have grown thirty contains and the nearest row of apple.

A correspondent furnishes the Rural New Yorker a statement of an experiment. He planted an orchard of 200 apple trees on an open prairie, with a few rows of young black walnuts set out at the same time on one side of the orchard. These have grown thirty the orchard. These have grown thirty contains and the nearest row of apple. formed an application that was perfectly efficient. The most satisfactory trees to them is now killed out and remedy tested, however, consisted of a mixture of one-half pound each of hard soap and kerosine in three gallons of water. This was applied and extended to the second apple row, but an examination the following day no further. showed many, if not all, of the worms destroyed. The growing cabbage pre-

the following sentence accurs:

"Noticing what you have said about stable manure. high lands for fruit trees and grape-vines, we are some three hundred feet new industry, and bids fair soon to be above tide-water, which I presume is sufficiently elevated to insure success."

this country. The plant is cultivated

and wherever this warm air impinges there will be no dew, and colds always less severe than in the lower grounds. Under some configurations of hill and valley the thermometrical difference between them is astonishing—we have a difference of one degree for every four feet of elevation—so that plants may be destroyed in the low grounds, while others of the same kind not more than fifty or sixty feet highermay escape uninjured. These differences give rise to many conflicting statements in regard to the hardiness and general success of plants. It also

Dr. S. D. Philbrick, of Des Moines "It is customary to plant the grape

quite early in the spring, but I have recently made a new departure from the old practice, and now plant the vine about the first of June. By this time the vine has made a growth of five or six inches, and new rootlets have been thrown out from the old roots. These new roots furnish a constant feeder for the vine. If properly set, the vine can be planted any time in the day without wilting, if the following directions are carefully adhered to: Take your vines up from the nursery and place them in a bucket of thin mud; be careful and not break the vine; have your ground well prepared; in planting be sure and have the roots evenly distributed; fill the pit one-third full, pour in a sufficient quantity of water to wet the earth well, and then fill the pit and press the earth firmly. If these directions are strictly adhered to 90 per cent. of the vines will grow and in one week's time they will look vigorous and healthy and will not be retarded in their growth. Having become so thoroughly convinced that this is the best method of planting the vine, I shall still continue to plant as set forth in this article. In conclusion I would say be careful and plant no vines save

#### strong and vigorous plants." THE CARE OF HARNESS.

A harness that has been on a horse' back several hours in hot or rainy weather becomes wet; if not properly leaned, the damage to the leather i irreparable. If, after being taken MONEY. from the horse in this condition, it is The contents of this immigration and oiled whenever they have been harness, the straps should be washed pamphlet are so voluminous that a moistened by sweat or soiled by mud. newspaper column is severely taxed If the harness is thoroughly cleaned to convey a general idea of the information thus handsomely collected and condensed into print. The State cened, the leather will retain its softness

ties, directions how to obtain govern- experiment in preventing mildew on ment lands, school, railroad and other gooseberries. The variety planted The products of the State in every had been long growing in a border leading field-live stock, fruit, dairy, until thoroughly infested with mildew and other agricultural products-are and nearly stationary in growth. The fully given, as are also its products in bushes were then dug up and divided the way of manufactures and mining, into four quarters with a sharp hatch- Suits from \$3 to \$30. and its business statistics generally, et. The border was covered four The public school and collegiate sys- inches deep with rich stable manure tems are fully exemplified. An exhib- and a portion of lime and ashes, and it of the financial condition of the the whole deeply spaded and mixed State and the meteorological report with the soil. In this enriched ground the divided gooseberry bushes were with good judgment, and the pam- next season; the bushes started into phlet should be obtained by every luxuriant growth. The mildew peeled reader desirous of seeing what Kan- off and vanished. The foliage assume sas is and does. The issue will doubt- the rich, dark hue of health, and the truit was without any mildew. The

The ravages of the caterpillars of A correspondent of the Farmer and the cabbage butterfly caused a good Fruit Grower grafts his grapes as fol-State Agricultural Experiment Sta- Hartford vines for stocks; saw them tion, Geneva, N. Y., particularly those off square within six inches of where of the second or August brood. In the roots branch out, and then saw order to test the efficacy of various them down six inches, no matter how reported remedies for the cabbage twisted they may be. I then slope worm, the directors applied them to the scion the same length the stock is special colections of worms, and noted opened, leaving two buds to the graft. the effects. One specimen confined If the cuttings are large, I make square for three hours in a bottle partly filled shoulders to the graft, so they will set with black pepper crawled away col- solid on the stock. Be sure to have ored by the powder, but apparently the bark of the scion to be even with and a third in one of boracic acid, ex- cord around just below the grafts, and hibited very little indication of incon- wedge on both sides between the venience. Bisulphide of carbon pro- graft, not on the inside, but on the

Many of our readers have doubtless GEO. E. SPALTON,

An inquirer desires to know of a sents such a mass of leaves in which good method for rotting lawn grass, the caterpillars may be concealed that in order that it may be used as comit is hardly possible to reach all the post for the garden. If it is kept conworms at one application. It is of importance, therefore, to repeat the use soapsuds and other refuse liquids usuof any remedy at frequent intervals .- ally made, it will rot; but in order to have it in fine condition a little time is required. Sprinkling it with un-ALTITUDES FOR TREES AND VINES. slacked lime and turning it over occasionally will also be beneficial. Sods reference to sites for fruit trees, etc., and grass when used on most farms in that respect are composted with

It is altogether unnecessary, and, in truth, it is useless, to pay any attention to sea-level in choosing an orchard or vineyard site. The elevation needed is a local one, and high enough above the valley to admit of the colder air finding its way down the hillside and taking the place of warmer air which is raised up in consequence; and wherever this warm air impinges

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and general success of plants. It also leads to extremes in choosing sites for orchards. While a low, sheltered valley is the worst place to choose, it does not follow that a blenk, northers elevated exposure is the best.—Er.

A few years ago Professor Daniels, of the University of Wisconsin, reported that corn from the tips, butts and middle of the same car was planted, and each year since the tips, butts and middle of that raised from the clevated exposure is the best.—Er.

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